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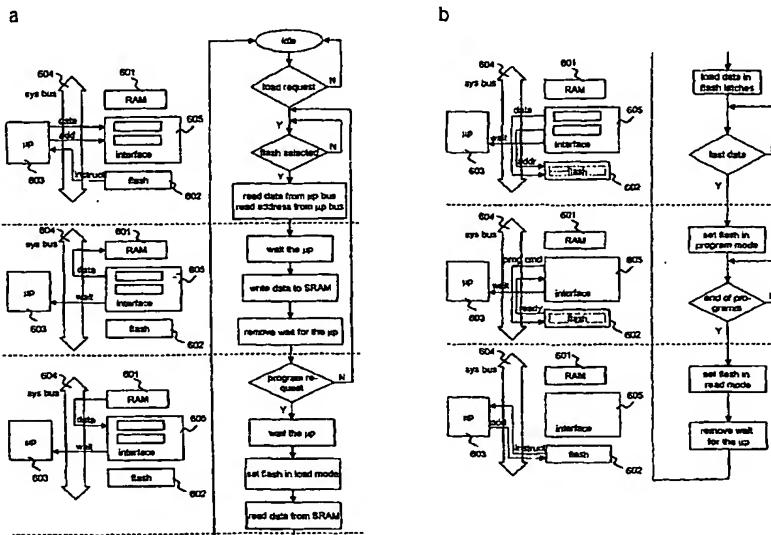
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(54) Title: METHOD AND APPARATUS FOR WRITING DATA TO A NON-VOLATILE MEMORY



(57) Abstract: The invention is a method and a circuit for writing data (DATA) from a processor (603) to a non-volatile memory (602) embedded in an integrated circuit. The main objective is to optimize the use of this embedded non-volatile memory. The method comprises a number of steps: The data to be written to the non-volatile memory (602) is first transferred to a volatile memory (601). Thereafter, a wait signal (wait) will be sent to the processor (603). Then, the data (DATA) will be transferred from the volatile memory (601) to the non-volatile memory (602). At last, the wait signal (wait) will be removed. Thus the non-volatile memory (602) can be used both as instruction memory and as RAM, which achieves the main goal of this invention. The corresponding circuitry is a complex integrated circuit equipped to execute the above functions.

WO 2003/104976 A3

INTERNATIONAL SEARCH REPORT

national application No
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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X	US 4 382 279 A (UGON MICHEL) 3 May 1983 (1983-05-03) the whole document ---	1-10 -/-

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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C(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	BROWN C ET AL: "SIMULTANEOUS CODE EXECUTION AND DATA STORAGE IN A SINGLE FLASH MEMORY CHIP FOR REAL TIME WIRELESS COMMUNICATION SYSTEMS" PROCEEDINGS OF THE 40TH MIDWEST SYMPOSIUM ON CIRCUITS AND SYSTEMS. MWSCAS '97. SACRAMENTO, CA, AUG. 3 - 6, 1997, MIDWEST SYMPOSIUM ON CIRCUITS AND SYSTEMS, NEW-YORK, NY: IEEE, US, vol. 2, 3 August 1997 (1997-08-03), pages 740-745, XP000789261 ISBN: 0-7803-3695-X page 742, right-hand column -page 743, left-hand column -----	1,9
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Information on patent family members

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